

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Previously presented) Diagnostic procedure for identification of a disorder of the pancreas by determining the overall content of all known pancreatic elastases (iso-enzymes) in the serum, secretions or excretions of a patient.
2. (Currently amended) Procedure according to claim 1, wherein the fact that identification is by means of immuno-chemical systems using monoclonal ~~monoclonal~~ or polyclonal antibodies that can singly and specifically or cross-reactively recognise all elastase iso-enzymes with the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1).
3. (Currently amended) Procedure according to claim 2, wherein the fact that the antibodies used are obtained by means of antigens ~~antigenes~~ consisting of the complete elastases 1, 2 and 3 or of their sub-units. The amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1) is not used as an elastase fragment or as an immunologically effective partial sequence thereof.
4. (Currently amended) Procedure according to claim 3, wherein the fact that the following synthetic peptides are primarily used as antigenes which after the immunisation of animals induce antibodies which cross-reactively recognise several

elastases but do not concern the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg (SEQ ID NO: 1):

NH₂-A-V-K-E-G-P-E-Q-V-I-P-I-N-COOH (SEQ ID NO: 2)

NH₂-Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R-COOH (SEQ ID NO: 3)

NH₂-R-S-G-C-N-G-D-S-G-G-P-L-N-COOH (SEQ ID NO: 4)

NH₂-G-P-L-N-C-P-T-E-D-G-G-W-Q-COOH (SEQ ID NO: 5)

NH₂-G-T-E-A-G-R-N-S-W-P-S-Q-I-COOH (SEQ ID NO: 6)

NH₂-H-N-L-S-Q-N-D-G-T-E-Q-Y-V-COOH (SEQ ID NO: 7)

NH₂-W-G-K-T-K-T-N-G-Q-L-A-COOH (SEQ ID NO: 8)

NH₂-V-S-S-R-G-C-N-V-S-R-K-P-T-COOH (SEQ ID NO: 9)

NH₂-G-G-E-E-A-R-P-N-S-W-P-W-Q-COOH (SEQ ID NO: 10)

NH₂-S-S-S-R-T-Y-R-V-G-L-G-R-H-N-COOH (SEQ ID NO: 11)

NH₂-K-D-W-N-S-N-Q-I-S-K-G-N-D-COOH (SEQ ID NO: 12)

NH₂-G-P-L-N-C-Q-A-S-D-G-R-W-COOH (SEQ ID NO: 13)

NH₂-G-A-L-P-D-D-L-K-Q-G-R-L-COOH (SEQ ID NO: 14)

NH₂-S-L-Q-Y-E-K-S-G-S-F-Y-COOH (SEQ ID NO: 15)

NH₂-F-G-C-N-T-R-R-K-P-T-V-F-T-COOH (SEQ ID NO: 16)

5. (Previously presented) Procedure according to claim 1, wherein the fact that antibodies are used singly or in a combination in an immuno-chemical identification system.

6. (Previously presented) Immunological test kits for the diagnosis and progress check of diseases of the pancreas using stool or body fluids containing one or more of the antibodies used in claim 2.

7. (Currently amended) Procedure for obtaining monoclonal and/or polyclonal antibodies that react specifically with human elastase 1 in stool or body fluids and are induced by the usual immunisation procedures, characterised by the fact that the peptides A-V-K-E-G-P-E-Q-V-I-P-I-N (SEQ ID NO: 2), Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R (SEQ ID NO: 3), R-S-G-C-N-G-D-S-G-G-P-L-N (SEQ ID NO: 4) and G-P-L-N-C-P-T-E-D-G-G-W-Q (SEQ ID NO: 5) or immunogenic partial peptides thereof are used as antigens ~~antigenes~~ for the immunisation of vertebrates ~~vertebrates~~, especially of small mammals and birds.

8. (Previously presented) Procedure according to claim 7, wherein the fact that before immunisation the free peptides are coupled with suitable carrier substances, primarily haemoczanine or albumin.

9. (Previously presented) Procedure according to claim 7, wherein the fact that polyclonal antibodies are produced using chickens as experimental animals.

10. (Previously presented) Polyclonal antibodies, insofar as they were produced according to claim 7.

11. (Previously presented) Monoclonal antibodies, insofar as they were produced according to claim 7.

12. (Currently amended) Peptide A-V-K-E-G-P-E-Q-V-I-P-I-N (SEQ ID NO: 2)

13. (Currently amended) Peptide Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R (SEQ ID NO: 3)

14. (Currently amended) Peptide R-S-G-C-N-G-D-S-G-G-P-L-N (SEQ ID NO: 4)

15. (Currently amended) Peptide G-P-L-N-C-P-T-E-D-G-G-W-Q (SEQ ID NO: 5)

16. (Previously presented) Purification and detection systems for human elastase 1, characterised by the fact that they contain at least one of the invention antibodies according to claim 10 or 11.

17. (Previously presented) Immunological test kits for the diagnosis and progress check of diseases of the pancreas and of mucoviscidosis using stool or body fluids.

18. (Previously presented) Immunological test kits according to claim 17, wherein the fact that 2 different antibodies are used (Sandwich-ELISA).